



PTO/SB/08A (10-01)
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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application No.	10/684,950
				Filing Date	October 13, 2003
				First Named Inventor	Michael A. Horton
				Art Unit	Not yet known
				Examiner Name	Not yet known
Sheet	1	of	4	Attorney Docket Number	18856-08206

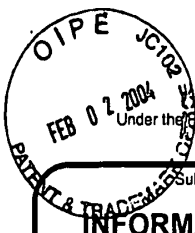
U.S. PATENT DOCUMENTS				
Examiner Initials*	Cite No. ¹	Document No. Number - Kind Code ² (if known)	Date MM-YYYY	Name of Patentee or Applicant of Cited Document
	A1	US-4,038,876	08-1977	Horton
	A2	US-4,134,681	01-1979	Elmer
	A3	US-4,318,300	03-1982	Maughmer
	A4	US-4,399,692	08-1983	Hulsing, II <i>et al.</i>
	A5	US-4,454,756	06-1984	Sharp <i>et al.</i>
	A6	US-4,827,624	05-1989	Franklin <i>et al.</i>
	A7	US-4,914,598	04-1990	Krogmann <i>et al.</i>
	A8	US-5,031,330	07-1991	Stuart
	A9	US-5,148,604	09-1992	Bantien
	A10	US-5,172,323	12-1992	Schmidt
	A11	US-5,210,954	05-1993	Schafner
	A12	US-5,237,753	08-1993	Carlson <i>et al.</i>
	A13	US-5,241,850	09-1993	Kawate
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	A17	US-5,381,604	01-1995	Heidel <i>et al.</i>
	A18	US-5,392,112	02-1995	Nakamura
	A19	US-5,400,033	03-1995	Hablani
	A20	US-5,615,132	03-1997	Horton <i>et al.</i>
	A21	US-5,819,206	10-1998	Horton <i>et al.</i>
	A22	US-6,061,611	05-2000	Whitmore
	A23	US-6,088,653	07-2000	Sheikh <i>et al.</i>
	A24	US-6,176,837	01-2001	Foxlin
	A25	US-6,205,401	03-2001	Pickhard <i>et al.</i>

Examiner Signature		Date Considered	27 MAY 2004
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m	A26	US-6,421,622	07-2002	Horton et al.

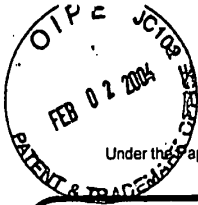
FOREIGN PATENT DOCUMENTS					
		Foreign Patent Document			
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OTHER REFERENCES – NON-PATENT LITERATURE DOCUMENTS				
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pm	C1	Chung, D. et al., “Strapdown INS Error Model for Multiposition Alignment,” IEEE Transactions on Aerospace and Electronic Systems; Vol. 32, No. 4; Oct. 1996; pp. 1362-1366.		
↑	C2	Randle, J. et al.; “Low Cost Navigation Using Micro-Machined Technology,” IEEE Conference on Intelligent Transportation System; 1997, p. 1064-1067.		
	C3	Creamer, G. et al.; “Attitude Determination and Control of Clementine During Lunar Mapping,” Journal of Guidance Control and Dynamics, Vol. 19, No. 3; May-June 1996; pp. 505-511.		
	C4	Mehra, R. et al.; “Adapting Kalman Filtering, Failure Detection and Identification for Spacecraft Attitude Estimation,” Proceedings of 4 th IEEE Conference on Control Applications; 1995, pp. 176-181.		
pm	C5	ADXL50/ADXL05 Evaluation Modules, Analog Devices, Inc., 1996, 2 pages.		

Examiner Signature	<i>Dylan W. Winkler</i>	Date Considered	27 MAY 2004
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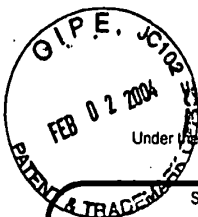
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mw ↑ ↓ mw	C6	Aramanovitch, L. et al.; "Quaternion Non-Linear Filter for Estimation of Rotating Body Attitude," Mathematical Methods in the Applied Sciences, Vol. 18, No. 15; Dec. 1995, pp. 1239-1255.		
	C7	Bar-Itzhack, et al.; "Recursive Attitude Determination From Vector Observations: Direction Cosine Matrix Identification," Journal of Guidance Control and Dynamics, Vol. 7, No. 1; Jan.-Feb. 1984, p. 51-56.		
	C8	Berman, Z.; "On Range and Attitude Estimation," IEEE Position Location and Navigation Symposium; Apr. 11-15, 1994, pp. 344-347.		
	C9	Guo-Shing-Huang, et al.; "Application of Nonlinear Kalman Filter Approach in Dynamic GPS-Based Attitude Determination," Proceedings of 40 th Midwest Symposium on Circuits and Systems, Vol. 2; Aug. 3-6, 1997, pp. 1440-1444.		
	C10	Gusinsky, V. et al.; "New Procedure for Deriving Optimized Strapdown Attitude Algorithms," Journal of Guidance Control And Dynamics, Vol. 20, No. 4; July-Aug. 1997, pp. 673-680.		
	C11	Jiang, Y. et al.; "Error Analysis of Quaternion Transformations," IEEE Transactions on Aerospace and Electronic Systems; Vol. 27, No. 4; July 1991, pp. 634-639.		
	C12	Markley, F., et al. "Deterministic EKFLike Estimator for Spacecraft Attitude Estimation," Proceedings of 1994 American Control Conference, Vol. 1; pp. 247-251.		
	C13	McKern, R. et al.; "Strapdown Attitude Algorithms From a Geometric Viewpoint," Journal of Guidance Control and Dynamics, Vol. 4, No. 6; Nov.-Dec. 1981; pp. 657-661.		
	C14	Moskowitz, L.; "Part I: Measurement of Applied Acceleration-Accelerometer Calibration," Instruments & Control Systems; Feb. 1961, pp. 257-260.		

Examiner Signature	<i>D. M. M. M.</i>	Date Considered	27 May 2004
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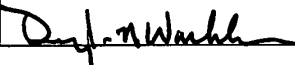
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OTHER REFERENCES – NON-PATENT LITERATURE DOCUMENTS				
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aw	C15	Reynolds, R.; "Quaternion Parameterization and a Simple Algorithm for Global Attitude Estimation," Journal of Guidance Control and Dynamics, Vol. 21, No. 4; Jul.-Aug. 1998, pp. 669-671.		
↑	C16	Savage, P.; "Strapdown Inertial Navigation Integration Algorithm Design Part 1: Attitude Algorithms," Journal of Guidance Control and Dynamics, Vol. 21, No. 1; Jan.-Feb. 1998; pp. 19-28.		
↑	C17	Schultz, R. et al.; "Airborne IRP Alignment Using Acceleration and Angular Rate Matching," 14 th Joint Automatic Control Conference of the American Control Council; June 1972, pp. 427-436 (1-7).		
↑	C18	Vathsal, S. et al.; "Spacecraft Attitude Determination Using a Second-Order Nonlinear Filter," Journal of Guidance Control and Dynamics, Vol. 10, No. 6; Nov.-Dec. 1987, pp. 559-566.		
↓	C19	Weiss, H.; "Quaternion Based Rate/Attitude Tracking System With Application to Gimbal Attitude Control," Proceedings IEEE Conference on Control and Applications; 1989, pp. 488-494.		
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